PATENT COOPERATION TREATY

To:		AMINING AUTHORIT AM	~ (N)	PCT
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OGILVY R Suite 1600	ENAULI	COCT OF	8 2004 (5)	REPLY TO:
	College Avenue	(4.7)	[2]	WRITTEN OPINION
montreal, C CANADA	luébec H3A 2Y3	Surabby Oliv	ly Renault (4)	(PCT Rule 66) 、 /
		Var.	d II II B	(1.01.1.0.00)
				DUE ON JAN \$5 2005 +
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			(day/month/year)	05.10.2004
	agent's file reference		REPLY DUE	within 3 month(s)
15818-26P	of AD			from the above date of mailing
nternational a		International filing date (da	ay/month/year)	Priority date (day/month/year)
PCT/CA 02/		05.11.2002		05.11.2002
	atent Classification (IPC) or I	both national classification a	ind IPC	
A61C13/00				
Applicant	INO -4 -1			
CYNOVAD	INC. et al.			
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preliminary examining authority:



European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465

Authorized Officer

Hagberg, A

Formalities officer (Incl. extension of time limits) Tayea, T Telephone No. +49 89 2399-7457



JC20 Rec'd PCT/PTO 0 5 MAY 2005

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International application No.

PCT/CA 02/01677

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j	. 8	asis of the opinion						
 With regard to the elements of the international application (Replacement sheets which have to the receiving Office in response to an invitation under Article 14 are referred to in this opinion a filed"): 								
	D	escription, Pages						
	1-	13	as originally filed					
	C	laims, Numbers						
	1-	41	as originally filed					
	Dı	rawings, Sheets						
		3-8/8	as originally filed					
With regard to the language, all the elements marked above were available or furnished to this Author language in which the international application was filed, unless otherwise indicated under this item.								
	Th	hese elements were available or furnished to this Authority in the following language: , which is:						
		the language of pul	ranslation furnished for the purposes of the international search (under Rule 23.1(b)). blication of the international application (under Rule 48.3(b)). ranslation furnished for the purposes of international preliminary examination (under 5.3).					
3.	Wi	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:						
		contained in the inte	ernational application in written form.					
		filed together with the	he international application in computer readable form.					
☐ furnished subsequently to this Authority in written form.								
		furnished subseque	ontly to this Authority in computer readable form.					
		The statement that in the international a	the subsequently furnished written sequence listing does not go beyond the disclosure application as filed has been furnished.					
		The statement that listing has been furn	the information recorded in computer readable form is identical to the written sequence nished.					
4.	The	he amendments have resulted in the cancellation of:						
		the description,	pages:					
		the claims,	Nos.:					
		the drawings,	sheets:					
5.		This opinion has been considered to g	en established as if (some of) the amendments had not been made, since they have go beyond the disclosure as filed (Rule 70.2(c)).					
6.	Add	itional observations, i	if necessary:					

IV.	Lack	of	uni	ty	of i	inv	ent	on
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1.	in r	esponse to the invitation (Form	n PCT/IPEA/	405) to restrict or pay additional fees, the applicant has:		
		restricted the claims.				
	×	paid additional fees.				
		paid additional fees under pro	otest.			
		neither restricted nor paid ad-	ditional fees.	·		
2.		This Authority found that the requirement of unity of invention is not complied with for the following reasons and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees:				
3.	 Consequently, the following parts of the international application were the subject of international preliminary examination in establishing this opinion: 					
		all parts.				
	⊠	the parts relating to claims No	os. 1-32, 35-	41 .		
V.		asoned statement under Ruid dicability; citations and expl		with regard to novelty, inventive step or industrial pporting such statement		
1.	Stat	tement				
	Nov	relty (N)	Claims	1-32, 35-41		
	inve	entive step (IS)	Claims			
	Indu	ustrial applicability (IA)	Claims			
2.	Cita	tions and explanations		•		

see separate sheet

Re Item IV

Lack of unity of invention

1. Reference is made to the following document:

D1: EP-A-1252867 (Cicero Dental systems) 30 October 2002

2. The present application does not meet the requirements of Rule 13, PCT, because it relates to four different inventions.

The different inventions are:

I. Claims 1-32: An method for designing a dental prosthesis

II. Claims 33: A computer readable memory

III. Claim 34: A computer data signal

IV. Claim 35-41: A system for designing a dental prosthesis

There are no technical features common between any of the inventions.

The inventions are furthermore directed to solve different technical problems, namely:

- 1. to simplify the computer aided design of a dental prosthesis
- II. to store instructions
- III. to transmit data
- IV. to provide hardware modules for a computer system

A technical relationship involving one or more of the same or corresponding special technical features in the sense of Rule 13.2 PCT therefore does not exist between the aforementioned four inventions, and the requirement of unity of invention referred to in Rule 13.1 PCT is not fulfilled.

Hence, the different inventions are not so linked as to form a single general inventive concept (Rule 13.1 PCT).

Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.

Claim 1 defines a method of computer-aided design of a dental prosthesis. D1

discloses such a method, namely (cf. abstract, page 2, lines 27-34, page 8. line 54 page 11, line 13, claims 1-5, 9, 10, figures):

A method for designing a dental prosthesis, the method comprising: identifying a plurality of components of said dental prosthesis to be designed, each one of said plurality of components having a distinct function; designing each of said plurality of components separately using virtual tools to produce virtual designs and generating separate data sets, while maintaining a relative reference among said components in a common reference frame; and producing a dental prosthesis model data set representing said dental prosthesis using all of said separate data sets.

Hence, claim 1 does not meet the requirement of novelty (Article 33(2) PCT).

2. Claim 16, although phrased as an independent claim, defines all features of claim 1 and is therefore dependent on claim 1.

Dependent claims 2-32 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step (Article 33(2)(3) PCT), because these claims define wellknown method steps practised in producing a dental prosthesis and in computer aided design of a dental prosthesis, which, as far as they are not disclosed in D1 (passages as above), therefore define slight constructional changes in the method of claim 1 which come within the scope of the customary practice followed by persons skilled in the art, especially as the advantages thus achieved can readily be foreseen.

3. The present application further does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 35 is not new in the sense of Article 33(2) PCT. The document D1 (passages as above), discloses:

A system for designing a dental prosthesis, the system comprising: a data store module for storing separately a plurality of components of said dental prosthesis to be designed, wherein a relative reference is maintained among said plurality of components in a common reference frame, a designing module for designing each of said plurality of components separately using virtual tools to produce virtual designs of said plurality of components and generating

separate data sets, and

an output module for associating each of said separate data sets together and outputting said separate data sets together to a manufacturing device.

Hence, claim 1 does not meet the requirement of novelty (Article 33(2) PCT).

- 4. Dependent claim 36-41 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step, because all features of these claims, as far as they are not disclosed in D1 (passages as above), define slight constructional changes in the system of claim 35, which come within the scope of the customary practice followed by persons skilled in the art, especially as the advantages thus achieved can readily be foreseen.
- 5. The attention of the applicant is further drawn to the fact that claims 1 and 16 do not meet the requirement of conciseness of Art. 6 PCT.